

EMS-Grivory Grivory® TSG-25/4 PA666-GF25

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSG-254-PA666-GF25.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	ISO 1183
Water Absorption	6.0 %	6.0 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
	165 MPa	23900 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	90.0 MPa	13100 psi	conditioned; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	6.0 %	6.0 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	conditioned; ISO 527-1/-2
Tensile Modulus	5.60 GPa	812 ksi	conditioned; ISO 527-1/-2
	7.70 GPa	1120 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	dry; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	5.00 J/cm ²	23.8 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	5.00 J/cm ²	23.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
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CTE, linear, Parallel to Flow Thermal Properties	25.0 µm/m-°C Metric	13.9 µin/in-°F English	ISO 11359-1/-2 Comments
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 110 °C	194 - 230 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Descriptive Properties	Value	Comments
Automotive	Air intake systems	
	Powertrain and Chassis	
Electricals & Electronics	Electrical appliances	
	Electrical equipment	
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	

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